

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (Cancelled)

1 21. (New) A system for operating wired and wireless phone services interconnectively,
2 the system comprising:

3 a private base station controller (pBSC) that is connected with a public switched
4 telephone network (PSTN) and a private base station transceiver system (pBTS), and provides a
5 mobile communication service to a mobile communication terminal; and

6 a group exchange that is connected with the PSTN, and assigns virtual wired phone
7 numbers to a plurality of mobile communication terminals existing in a mobile zone as a
8 management region of the pBTS, and provides a public wired phone service to the mobile
9 communication terminals using the virtual wired phone numbers, and provides a wired phone
10 service to a wired terminal existing outside the mobile zone.

1 22. (New) The system according to claim 21, wherein the group exchange calls the
2 mobile communication terminal corresponding to the virtual wired phone number when
3 receiving an incoming call containing the virtual wired phone number.

1 23. (New) The system according to claim 21, wherein the group exchange comprises a
2 database for storing, for each arbitrary wired phone number, information indicating whether or
3 not each of the wired phone numbers is a virtual phone number and information about whether or
4 not a multiple terminating service is registered.

1 24. (New) The system according to claim 23, wherein the group exchange
2 simultaneously calls the wired terminal corresponding to the wired phone number and the mobile
3 communication terminal when the wired phone number registered with the multiple terminating
4 service is called.

1 25. (New) The system according to claim 21, wherein the pBSC comprises a database
2 for storing the virtual wired phone number assigned to each of the mobile communication
3 terminals and a mobile identifier number (MIN) of the mobile communication terminal
4 corresponding to the virtual wired phone number.

1 26. (New) The system according to claim 21, wherein the group exchange is connected
2 to the PSTN through No. 7 signaling.

1 27. (New) The system according to claim 21, wherein, when receiving a request for an
2 outgoing service from an internal mobile communication terminal, the group exchange changes a
3 caller identification (CID) into the virtual wired phone number assigned to the internal mobile
4 communication terminal, and calls a called terminal via the PSTN.

1 28. (New) The system according to claim 21, wherein, when receiving a request for an
2 outgoing service from an internal mobile communication terminal, the pBSC checks a service
3 type identifier defining which one of a private network service and a public network service the
4 internal mobile communication terminal requests.

1 29. (New) The system according to claim 28, wherein the pBSC relays an outgoing call
2 to the group exchange when the internal mobile communication terminal requests the private
3 network service, and relays the outgoing call to the PLMN when the internal mobile
4 communication terminal requests the public network service.

1 30. (New) A method for operating wired and wireless phone services interconnectively,
2 the method comprising the steps of:
3 assigning, by a group exchange, virtual wired phone numbers to a plurality of mobile
4 communication terminals existing in a mobile zone as a management region of a private base
5 station transceiver system (pBTS);

6 providing, by the group exchange, a wired phone service to a wired terminal existing
7 outside the mobile zone; and

8 providing, by the group exchange, a public wired phone service to the mobile
9 communication terminals by linking the virtual wired phone numbers with mobile identifier
10 numbers (MINs) of the mobile communication terminals.

1 31. (New) The method according to claim 30, wherein in the step of providing the public
2 wired phone service, when the group exchange receives an incoming call containing the virtual
3 wired phone number through a public switched telephone network (PSTN), the group exchange
4 calls the mobile communication terminal corresponding to the virtual wired phone number.

1 32. (New) The method according to claim 30, further comprising the step of
2 simultaneously calling, by the group exchange, the wired terminal corresponding to the wired
3 phone number and the mobile communication terminal when the wired phone number registered
4 with the multiple terminating service is called.

1 33. (New) The method according to claim 32, further comprising the step of rerouting,
2 by the group exchange, an incoming call to a public switched telephone network (PSTN) or a
3 public land mobile network (PLMN) when the called wired terminal and the mobile
4 communication terminal make no response.

1 34. (New) The method according to claim 30, further comprising the step of, when the
2 group exchange receives a request for an outgoing service from an internal mobile
3 communication terminal, changing, by the group exchange, a caller identification (CID) into the
4 virtual wired phone number assigned to the internal mobile communication terminal, and calling
5 a called terminal via a public switched telephone network (PSTN).

1 35. (New) The method according to claim 30, further comprising the step of, when a
2 private base station controller (pBSC) receives a request for an internal service from an outgoing
3 mobile communication terminal, checking, by the pBSC, a service type identifier defining which
4 one of a private network service and a public network service the internal mobile communication
5 terminal requests.

1 36. (New) The method according to claim 35, further comprising the steps of:
2 relaying, by the pBSC, an outgoing call to the group exchange when the internal mobile
3 communication terminal requests the private network service; and
4 relaying, by the pBSC, the outgoing call to a public land mobile network (PLMN) when
5 the internal mobile communication terminal requests the public network service.